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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/810,635	03/16/2001	Martin Gerber	9793/035 BMID 9977	7384
23690 75	590 05/13/2004		EXAMINER	
Roche Diagno	stics Corporation	ROBINSON, DANIEL LEON		
9115 Hague Ro	ad			
PO Box 50457			ART UNIT	PAPER NUMBER
Indianapolis, IN 46250-0457			3742	
_			DATE MAIL ED. 06/12/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)			
		09/810 _, 635	GERBER ET AL.			
		Examiner	Art Unit			
		Daniel I. Robinson	3742			
Period fo	The MAILING DATE of this communication apports. Or Reply	pears on the cover sheet with the c	orrespondence address			
A SH THE - External fer - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLIMAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a replimate to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[\inf	Responsive to communication(s) filed on 16 M	larch 2001.				
·	his action is FINAL . 2b)⊠ This action is non-final.					
3) 🗌						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-82</u> is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) <u>53-64 and 78-82</u> is/are allowed. Claim(s) <u>1,3-8,19,20 and 26</u> is/are rejected. Claim(s) <u>2,9-11,13-18,21 and 22</u> is/are objected. Claim(s) are subject to restriction and/o	wn from consideration. ed to.				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority ι	ınder 35 U.S.C. § 119					
a)(Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
3) 🛛 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>7-30-2001 3-7-2003</u> .		Patent Application (PTO-152)			

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 4-8, 19, 20, 26 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (U.S.Pat.6,654,620) in view of Van Antwerp et al. (U.S.Pat.6,011,984). Wu discloses a method and apparatus for improving non-invasive determination of the concentration of analytes in a biological sample that hsows many of the features of the claimed invention but fails to show a membrane. Van Antwerp discloses a detection method and apparatus of biological molecules using chemical amplification and optical sensors that explicitly shows using a membrane. It would have been obvious to one of ordinary skill at the time of the claimed invention to use a membrane as taught by Van Antwerp with the device of Wu so as to limit the glucose concentration and the analytical signal.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wu in View of Van Antwerp as applied to claims 1, 3, 4-8, 19, 20 and 26 above, and further in view of Simons(U.S.Pat.5,227,040). Wu in view of Van Antwerp does not show a membrane comprised of a bipolar cation and anion exchange layers. Simons discloses a high performance bipolar membrane that explicitly shows a bipolar membrane. It would have been obvious to one of ordinary skill in the art at the time of the claimed invention

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to use a bipolar membrane as taught by Simons with the device of Wu in vie wof Van Antwerp so the electrical resistance would be lowered.

Claims 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu in View of Van Antwerp as applied to claims 1, 3, 4-8, 19, 20 and 26 above, and further in view of Shemwell et al. (U.S.Pat.6,095,974) and Steffes (U.S.Pat.6,442,410). Wu in view of Van Antwerp does not explicitly show a readout driven by an electrical signal. Steffes disclose a blood glucose measurement system and method using optical refractometry that shows using a readout and Shemwell discloses a disposable fiber optic probe that shows a transducer that converts a two input coupler output via a transducer to an electrical signal. It would have been obvious to on of ordinary skill in the art at the time of the claimed invention to convert the output of the coupler to an electrical signal, as taught by Shemwell, so as to drive the readout display of Steffes.

Claims 27, 28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu in View of Van Antwerp as applied to claims 1, 3, 4-8, 19, 20 and 26 above, and further in view of Yamashita et al.(U.S.Pat.6,611,698). Wu in view of Van Antwerp does not show light emitting diode or a photodiode detector. Yamashita discloses an optical instrument that shows using a diode detector and a light emitting diode. It would have been to one of ordinary skill in the art at the time of the claimed invention to a light emitting diode that is highly reliable and a photodiode detector because it is highly sensitive to light.

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Allowable Subject Matter

Claims 2, 13-18, 21, and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 53-64 and 78-82 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel I. Robinson whose telephone number is 703 306-9043. The examiner can normally be reached on M-F 5:30am-2:30pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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